

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A modular ~~Modular~~ device for the detection and/or transmission of radiation, comprising:
 [[-]] a carrier with a mounting surface and a set of first connecting elements; and
 [[-]] a set of modules for the detection and/or transmission of radiation, each of ~~them~~ said modules comprising a second connecting element that ~~can be~~ is capable of being coupled to one of said first connecting elements to form a joint;
 wherein said joint is adapted to allow rotation of each module relative to the carrier and to allow said set of modules to self-align by mutually contacting each other.
2. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the joint is adapted to allow rotation on at least one axis and/or revolution around a point and/or a linear movement.
3. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the modules ~~may~~ are contactable with each other when ~~they are~~ mounted on the carrier.
4. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the modules comprise a base portion that is larger in diameter than other parts of the module.
5. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the second connecting elements are balls or cylinders.
6. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the first connecting elements are ~~constituted by~~ circular or rectangular holes in the mounting surface and

~~that~~ the second connecting elements ~~can be~~ are capable of being snapped into or through said holes or fixed to the holes by a locking element.

7. (Currently amended) The modular ~~Modular~~ device according to claim 6, wherein the second connecting elements protrude from the backside of the carrier when fixed to the holes.

8. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the second connecting elements are flexible rods.

9. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the mounting surface is a section of a plane, a cylinder or a sphere.

10. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the modules have a shape that allows the gapless filling of a plane, particularly the shape of a prism with a rectangular or hexagonal cross section.

11. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the modules comprise a sensitive unit on which an anti-scatter grid is mounted.

12. (Currently amended) The modular ~~Modular~~ device according to claim 1, wherein the first and second connecting elements are adapted to make at least one electrical contact when coupled together.

13. (Currently amended) A carrier ~~Carrier~~ for a modular device for the detection and/or transmission of radiation, comprising:

a mounting surface; and

a set of first connecting elements that ~~can be~~ are capable of being coupled with second connecting elements of modules to form a joint;

wherein said joint is adapted to allow rotation of each module relative to the mounting surface and to allow said modules to self-align by mutually contacting each other.

14. (Currently amended) A module ~~Module~~ for a modular device for the detection and/or transmission of radiation, comprising:

a second connecting element that ~~can be~~ is capable of being coupled to a first connecting element of a carrier to form a joint;

wherein said joint is adapted to allow rotation of each module relative to the carrier and to allow a set of said modules to self-align by mutually contacting each other.

15. (Currently amended) An imaging ~~Imaging~~ device, particularly a CT-system or a PET scanner, comprising an X-ray sensitive modular device according to claim 1.

16. (New) A modular device for the detection and/or transmission of radiation, comprising:

a carrier with a mounting surface;

a set of holes formed in the mounting surface; and

a set of modules for the detection and/or transmission of radiation, each of said modules comprising a ball configured for inserting into one of said holes to form a joint.

17. (New) The modular device of claim 16, wherein said joint is adapted to allow rotation of each module relative to the mounting surface and to allow said modules to self-align by mutually contacting each other.

18. (New) The modular device according to claim 16, wherein the joint is adapted to allow rotation on at least one axis and/or revolution around a point and/or a linear movement.

19. (New) The modular device according to claim 16, wherein said holes are circular holes in the mounting surface and the balls of the modules are capable of being snapped into or through said holes or fixed to the holes by a locking element.

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20. (New) The modular device according to claim 16, wherein said holes are rectangular holes in the mounting surface and the balls of the modules are capable of being snapped into or through said holes or fixed to the holes by a locking element.